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ABSTRACT

This is a textbook of Fourier optics for the classroom or self-study. Major topics included in the 38 chapters are: Huygens' principle and Fourier transforms; image formation; optical coherence theory; coherent imaging; image analysis; coherent noise; interferometry; holography; communication theory techniques; analog optical computing; phase contrast imaging; partially filled, sysnthetic-aperture imaging systems; and optical lithographic printers. References are included in each chapter. (YP)

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